

To: Mahmud, Shahid[Mahmud.Shahid@epa.gov]
Cc: Ostrander, David[Ostrander.David@epa.gov]; Hillenbrand, John[Hillenbrand.John@epa.gov]; Moreen, Ed[Moreen.Ed@epa.gov]; Price, Lisa[Price.Lisa@epa.gov]; Wirtschafter, Joshua[Wirtschafter.Joshua@epa.gov]; Way, Steven[way.steven@epa.gov]
From: Williams, Laura
Sent: Fri 8/21/2015 12:51:46 AM
Subject: Additional Information Requested
Flow Estimate from Gold King and 4 Mines-Draft.docx
Summary of Historic Flow Data from 4 Mines.docx
Work Similar to Gold King 8-20-15.docx

Shahid,

Please see the two attached documents showing summarized flow data. I will send the flow data collected yesterday at these mines and the nearby Silver Ledge Mine as soon as I get it.

There are some additional mines and seeps that discharge to Cement Creek upstream from Gladstone, but these 4 are thought to be the major contributors (both flow and contaminant load) to Cement Creek upstream of the confluence with South Fork just south of Gladstone. There are many additional mines that discharge to Cement Creek starting at Gladstone and going south. The Silver Ledge Mine discharges to South Fork that enters Cement Creek south of the American Tunnel. Several tributaries carry mine discharge to Cement Creek downstream of Gladstone. If that information is needed, please let me know, but it will take a while to put it together.

The Animas River Viewer shows EPA sample stations in the vicinity of the mine.
<https://r8.ercloud.org/Animas/>

Also attached is a working version of a table identifying other mine sites where EPA has successfully conducted investigative work at mine sites such as the Gold King Mine. We have done our best to compile information for the past 5 years (since 2010) though I'm certain that more have been done before that (we were getting info off the epaosc.net website). We initially focused on the state of Colorado then broadened out to all of Region 8 and, finally, went nationally. As you can see, the bulk of the mine work has been conducted by Region 8 (8/11 removals). The Remedial folks are also trying to develop a similar table which I will share with you as soon as I'm able.

Enjoy, lw

